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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,166	03/21/2007	Stefan Schiele	KW-17	5363
40570	7590	09/16/2011		
LUCAS & MERCANTI, LLP 475 Park Avenue South, 15th Floor New York, NY 10016			EXAMINER KIT, STEPHEN A	
			ART UNIT	PAPER NUMBER
			1717	
			NOTIFICATION DATE	DELIVERY MODE
			09/16/2011	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

INFO@LMIPLAW.COM

Office Action Summary	Application No. 10/550,166	Applicant(s) SCHIELE, STEFAN	
	Examiner STEPHEN KITT	Art Unit 1717	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 August 2011.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 5) ☒ Claim(s) 1-3 and 5-7 is/are pending in the application.
- 5a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) ____ is/are allowed.
- 7) ☒ Claim(s) 1-3 and 5-7 is/are rejected.
- 8) ☐ Claim(s) ____ is/are objected to.
- 9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

1. The Applicant's amendment filed on August 12, 2011 was received. Claims 1-2 were amended, claim 4 was cancelled, and claims 6-7 were newly added.

The text of those sections of Title 35, U.S.C. code not included in this action can be found in the prior Office action issued May 12, 2011.

Claim Rejections - 35 USC § 112

2. The rejection of claim 2 under 35 U.S.C. 112, second paragraph, is withdrawn because claim 2 has been amended.

3. Claim 7 recites the limitation "conveyor belts" in claim 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

4. The claim rejection(s) under 35 U.S.C. 103(a) as unpatentable over Jeppesen (US 5364658) in view of Bar (DE 19857045) on claims 1 and 3 are withdrawn, because applicant has amended claim 1 to include the limitations of the previous claim 4.

Claims 1, 3 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jeppesen (US Patent No. 5364658) in view of Bar (German Patent No. DE 19857045, as read via the translation of US Patent No. 6858261) and further in view of Kapp-Schwoerer (US Patent No. 5236746).

5. Regarding claim 1, Jeppesen describes a coating device that applies a coating to parts of an edge (*i.e.*, parts of the outside surface) of a moving elongated workpiece (**item 18**), characterized in that said device comprises a device (**spray box 20**) for

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applying a compound and two separate UV lamps (**lamps 24, 26**) arranged thereafter in the direction of movement of the workpiece (**18**) (column 4, lines 1-16, 26-42, Figs. 1-3).

While Jeppesen does not explicitly state that the applied coating is a water-soluble compound, the type of coating material used in the coating device represents a claim of intended use that does not structurally distinguish the claimed invention from the prior art apparatus of Jeppesen (see MPEP 2114).

6. Further regarding claim 1, Jeppesen describes two separate UV lamps (**24, 26**) for hardening the coating material, but does not explicitly describe near-infrared (NIR) driers. However, Bar teaches that both UV hardening and NIR drying by exposure to a NIR source (**infrared lamp 11**) are two alternative methods for binding a coating agent to a surface after a coating operation (Bar: column 2, lines 7-21, 46-62, column 4, lines 18-26). Bar further teaches that water strongly absorbs NIR radiation, such that the coating object can be dried with NIR radiation without substantial heating of the coating object and without a further cooling step (Bar: column 2, lines 59-67).

7. One of ordinary skill in the art at the time of the invention desiring to coat an object with a water-based lacquer or paint would therefore have appreciated that the use of a NIR drier instead of a UV lamp in the device of Jeppesen would represent an obvious, art-recognized component used for the same intended purpose of binding a coating to a surface. Said artisan would further recognize that the use of a NIR lamp would advantageously minimize heating of the coating object.

8. Jeppesen in view of Bar does not disclose the use of cooling plates. However, Kapp-Schwoerer teaches the use of cooling plates disposed on a conveyor (**14**) that

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transports an elongated coating object (**board, substrate 18**) past a drier (**infrared rods 22**) in order to maintain the coating object at a low temperature (Kapp-Schwoerer: column 5, lines 14-33, column 3, lines 36-52, Fig. 1).

9. One of ordinary skill in the art at the time of the invention would therefore have recognized that the use of cooling plates to keep the coating object from overheating would represent an obvious use of a known technique used to yield a predictable result.

10. Regarding claim 7, as described above, Kapp-Schwoerer teaches that the cooling plates are disposed on the conveyor, so the cooling plates are clearly arranged to cool the conveyors, which protects them from overheating.

11. Regarding claim 3, regulating of the NIR driers of Jeppesen in view of Bar depending on the application medium represents a claim of intended use that does not patentably distinguish the structure of the claimed invention from that of a prior art device capable of being operated in the same manner (see MPEP 2114). The intensity of the IR driers (**lamps 11**) of Jeppesen in view of Bar can be adjusted (Bar: column 7, lines 5-11), and the apparatus of Jeppesen in view of Bar can be operated such that the NIR driers are regulated depending on the application medium.

12. The claim rejection(s) under 35 U.S.C. 103(a) as unpatentable over Jeppesen in view of Bar as applied to claim 1 above, and further in view of Biallas (US Patent No. 5888592) on claim 2 is maintained. The rejection(s) are restated below.

Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jeppesen in view of Bar as applied to claim 1 above, and further in view of Biallas (US Patent No. 5888592).

13. Regarding claim 2, Jeppesen in view of Bar teaches the use of NIR driers, but does not explicitly teach the use of NIR driers that can be aligned. However, Biallas teaches a drier for drying a moving coated object via irradiation in which the driers (**IR emitters 3**) can be aligned (*i.e.*, the driers are pivotable) so as to dry elongated objects (**7**) having either a horizontal or a vertical orientation (Biallas: column 3, lines 50-62). One of ordinary skill in the art at the time of the invention, desiring to coat objects of differing shapes and orientations in the apparatus of Jeppesen in view of Bar, would therefore have found it obvious to make use of NIR driers that can be aligned in order to accommodate the differing coating objects.

14. The claim rejection(s) under 35 U.S.C. 103(a) as unpatentable over Jeppesen in view of Bar as applied to claim 1 above, and further in view of Kapp-Schwoerer (US Patent No. 5236746) on claim 4 is withdrawn, because claim 4 was cancelled.

15. The claim rejection(s) under 35 U.S.C. 103(a) as unpatentable over Jeppesen in view of Bar as applied to claim 1 above, and further in view of Nussbaumer (US Patent No. 6176927) on claim 5 is maintained. The rejection(s) are restated below.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jeppesen in view of Bar as applied to claim 1 above, and further in view of Nussbaumer (US Patent No. 6176927).

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16. Regarding claim 5, Jeppesen in view of Bar discloses an application nozzle (**spray nozzle 36**), and a suction system with a suction opening (**exhaust 46, exhaust channel 40**) (Jeppesen: column 4, lines 38-58, Fig. 2), but does not explicitly describe a suction nozzle.

17. However, Nussbaumer teaches the use of a coating apparatus having an application nozzle (**spray element 15, 16**) and a suction nozzle (**suction head 14**) that directs material to an exhaust (**line 13**) (Nussbaumer: column 3, lines 47-62, Fig. 2).

One of ordinary skill in the art at the time of the invention would recognize that adding the suction nozzle of Nussbaumer to the suction system of Jeppesen in view of Bar would represent an obvious addition of a known element that would fail to produce any new and unexpected benefit.

Response to Arguments

18. Applicant's arguments filed August 12, 2011 have been fully considered but they are not persuasive.

Applicant's primary argument is that none of the combinations disclose lateral cooling plates as in amended claim 1.

In response to Applicant's arguments, please consider the following:

Previous claim 4 was rejected by the combination of Jeppesen and Bar further in view of Kapp-Schwoerer. The term "lateral" which was added to the claims is so broad that it does not limit the structure of the cooling plates in any way. Merriam-Webster defines "Lateral" as:

1: of or relating to the side

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2: situated on, directed toward, or coming from the side

3: extending from side to side <the *lateral* axis of an airplane>

The disclosure of cooling plates, by Kapp-Schwoerer, implies that the plates are "lateral" in shape, or that they extend from side to side, as that is the structure of a plate. This therefore reads on the claim limitation.

Conclusion

19. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to STEPHEN KITT whose telephone number is (571)270-7681. The examiner can normally be reached on Monday through Friday 8am to 5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dah-Wei Yuan can be reached on 571-272-1295. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. K./
Stephen Kitt
Examiner, Art Unit 1717
9/8/11

/Dah-Wei D. Yuan/
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